

CLAIMS

I claim:

Sub 7 1. A light source for fingerprint analysis, comprising:

an array of light emitting diodes; and

5 a power source for powering said array of light emitting diodes;

wherein said array emits wavelength-specific light of sufficient intensity to cause a dye to visibly fluoresce.

10 2. The light source according to claim 1 wherein said power source is portable.

3. The light source according to claim 1 wherein said array has between 10 and 25 light emitting diodes.

15 4. The light source according to claim 1 wherein said array of light emitting diodes is attached to a user by a personal attachment device.

5. The light source according to claim 1 wherein said light emitting diodes emit visible light.

20 6. The light source according to claim 1 wherein said light emitting diodes emit light in the range of between about 430nm to about 470nm light.

7. The light source according to claim 1 wherein said power source is a 6-volt battery or a 4 D-cell battery pack.

25 8. The light source according to claim 1 wherein said light source emits high-intensity visible, wavelength specific light which causes rhodamine 6G dye to visibly fluoresce as detected by a

human eye.

9. A light source for fingerprint analysis, comprising:

at least one light emitting diode;

a power source; and

a personal attachment device;

wherein said light emitting diode is powered by said power source, and wherein said power source and said light emitting diodes are attached to said personal attachment device to produce a personal light source for on-site analysis of latent fingerprints, footprints or other markings.

10. The light source according to claim 9 wherein said power source is portable.

11. The light source according to claim 9 wherein said at least one light emitting diode comprises between about 10 and 100 LEDs configured in any geometric manner.

12. The light source according to claim 9 wherein said personal attachment device is a belt pouch and head set having an elastic head band.

13. The light source according to claim 9 wherein said at least one light emitting diode emits visible light.

14. The light source according to claim 9 wherein said at least one light emitting diode emits light having a wavelength from between about 400 nm to about 550 nm.

15. The light source according to claim 9 wherein said power source is a 6-volt battery or a 4 D-

cell battery pack.

16. The light source according to claim 9 wherein said light source emits high-intensity visible, wavelength specific light which causes rhodamine 6G dye to visibly fluoresce as detected by a human eye.

17. A light source for fingerprint analysis, comprising:

at least one light emitting diode;

a power source having a power source connector for supplying power to said at least one light emitting diode; and

a head set;

wherein said light emitting diodes are powered by said power source, and wherein said at least one light emitting diode is attached to said head set to produce a personal light source for on-site analysis of latent fingerprints, footprints or other markings.

18. The light source according to claim 17 wherein said power source is carried but not worn by the user.

19. The light source according to claim 17 wherein said at least one light emitting diode emits wavelength specific, visible light.

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